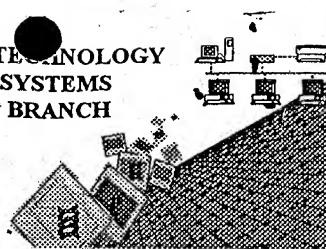


BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
0906

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/054,399
Source: OIPE
Date Processed by STIC: 9-16-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Does Not Comply
Corrected Diskette Needed



OIIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:29

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Output Set: N:\CRF4\09162002\J054399.raw

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2 <110> APPLICANT: Arkowitz, Robert A
3      Nern, Peter MA
5 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND PROTEIN SEQUENCES
7 <130> FILE REFERENCE: DY0U13.1A2CP1
9 <140> CURRENT APPLICATION NUMBER: 10/054399
C--> 10 <141> CURRENT FILING DATE: 2002-08-30
12 <150> PRIOR APPLICATION NUMBER: 09/168,474
13 <151> PRIOR FILING DATE: 1998-10-08
15 <150> PRIOR APPLICATION NUMBER: 08/951,141
16 <151> PRIOR FILING DATE: 1997-10-15
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21 <150> PRIOR APPLICATION NUMBER: US 09/732,180
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27 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03033
28 <151> PRIOR FILING DATE: 1998-10-08
30 <150> PRIOR APPLICATION NUMBER: 9812793.9
31 <151> PRIOR FILING DATE: 1998-06-12
33 <150> PRIOR APPLICATION NUMBER: 9721357.3
34 <151> PRIOR FILING DATE: 1997-10-08
36 <150> PRIOR APPLICATION NUMBER: 9721358.1
37 <151> PRIOR FILING DATE: 1997-10-08
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54 tttagcattta acgatgagga gcttttcaact atatccgacg tttttgccaa ctgcacgtcc 180
55 cagctggtca aagtgtctaga agtagtagaa acgctaatga attccagc 228
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62 <220> FEATURE:
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:29

Input Set : A:\pto_ms.txt
Output Set: N:\CRF4\09162002\J054399.raw

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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67 1 5 10 15
69 Val Ile Ala Ser Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr Asp
70 20 25 30
72 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
73 35 40 45
75 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
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93 ttgtcattta acgatgagga gcttttcaact atatccgacg tttttgccaa ctgcagctcc 180
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102 <223> OTHER INFORMATION: Description of Artificial Sequence: amino acid
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109 20 25 30
111 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
112 35 40 45
114 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
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132 ttgtcattta acgatgagga gcttttcaact atatccgacg tttttgccaa ctgcagctcc 180

need to explain the
Source of the genetic
material

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002

TIME: 10:54:29

Input Set : A:\pto_ms.txt

Output Set: N:\CRF4\09162002\J054399.raw

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148 20 25 30
150 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
151 35 40 45
153 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
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156 Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser
157 65 70 75
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171 ttgtcattta acgatgagga gcttttcaact atatccgacg tttttgccaa ctgcagctcc 180
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186 Val Ile Ala Pro Asp Asp Leu Lys Val Cys Lys Lys Ser Ile Tyr Asp
187 20 25 30
189 Phe Ile Leu Gly Cys Lys Lys His Phe Ala Phe Asn Asp Glu Glu Leu
190 35 40 45
192 Phe Thr Ile Ser Asp Val Phe Ala Asn Ser Thr Ser Gln Leu Val Lys
193 50 55 60
195 Val Leu Glu Val Val Glu Thr Leu Met Asn Ser Ser
196 65 70 75
199 <210> SEQ ID NO: 9
200 <211> LENGTH: 392
201 <212> TYPE: PRT

see
page 2

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
 TIME: 10:54:29

Input Set : A:\pto_ms.txt
 Output Set: N:\CRF4\09162002\J054399.raw

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 204 <220> FEATURE:
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 209 1 5 10 15
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 212 20 25 30
 214 Ile Thr Ser Glu Glu Leu Tyr Met Leu Phe Pro Asn Leu Gly Asp Ala
 215 35 40 45
 217 Ile Asp Phe Gln Arg Arg Phe Leu Ile Ser Leu Glu Ile Asn Ala Leu
 218 50 55 60
 220 Val Glu Pro Ser Lys Gln Arg Ile Gly Ala Leu Phe Met His Ser Lys
 221 65 70 75 80
 223 His Phe Phe Lys Leu Tyr Glu Pro Trp Ser Ile Gly Gln Asn Ala Ala
 224 85 90 95
 226 Ile Glu Phe Leu Ser Ser Thr Leu His Lys Met Arg Val Asp Glu Ser
 227 100 105 110
 229 Gln Arg Phe Ile Ile Asn Asn Lys Leu Glu Leu Gln Ser Phe Leu Tyr
 230 115 120 125
 232 Lys Pro Val Gln Arg Leu Cys Arg Tyr Pro Leu Leu Val Lys Glu Leu
 233 130 135 140
 235 Leu Ala Glu Ser Ser Asp Asp Asn Asn Thr Lys Glu Leu Glu Ala Ala
 236 145 150 155 160
 238 Leu Asp Ile Ser Lys Asn Ile Ala Arg Ser Ile Asn Glu Asn Gln Arg
 239 165 170 175
 241 Arg Thr Glu Asn His Gln Val Val Lys Lys Leu Tyr Gly Arg Val Val
 242 180 185 190
 244 Asn Trp Lys Gly Tyr Arg Ile Ser Lys Phe Gly Glu Leu Leu Tyr Phe
 245 195 200 205
 247 Asp Lys Val Phe Ile Ser Thr Thr Asn Ser Ser Ser Glu Pro Glu Arg
 248 210 215 220
 250 Glu Phe Glu Val Tyr Leu Phe Glu Lys Ile Ile Ile Leu Phe Ser Glu
 251 225 230 235 240
 253 Val Val Thr Lys Lys Ser Ala Ser Ser Leu Ile Leu Lys Lys Lys Ser
 254 245 250 255
 256 Ser Thr Ser Ala Ser Ile Ser Ala Ser Asn Ile Thr Asp Asn Asn Gly
 257 260 265 270
 259 Ser Pro His His Ser Tyr His Lys Arg His Ser Asn Ser Ser Ser
 260 275 280 285
 262 Asn Asn Ile His Leu Ser Ser Ser Ser Ala Ala Ala Ile Ile His Ser
 263 290 295 300
 265 Ser Thr Asn Ser Ser Asp Asn Asn Ser Asn Asn Ser Ser Ser Ser
 266 305 310 315 320
 268 Leu Phe Lys Leu Ser Ala Asn Glu Pro Lys Leu Asp Leu Arg Gly Arg
 269 325 330 335
 271 Ile Met Ile Met Asn Leu Asn Gln Ile Ile Pro Gln Asn Asn Arg Ser
 272 340 345 350
 274 Leu Asn Ile Thr Trp Glu Ser Ile Lys Glu Gln Gly Asn Phe Leu Leu

See page 2

RAW SEQUENCE LISTING

DATE: 09/16/2002

PATENT APPLICATION: US/10/054,399

TIME: 10:54:29

Input Set : A:\pto_ms.txt

Output Set: N:\CRF4\09162002\J054399.raw

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295 gccagacaag agagtaaaca gcttcatgct caaataaata aagcaaaaca caagatacaa 180
296 gatgcaagct tattccagat ggccaacaaa gttacttcgt tgacaaaaaa taagatcaac 240
297 ttaaagccaa atatcgtgtt gaaaggccat aataataaaa tctcagattt tcggtggagt 300
298 cgagattcaa aacgtatttt gagtgcaagt caagatggct ttatgcttat atgggacagt 360
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301 agagtttcga aagaaaacag agtagcgcaa aacgttgcgt caattttcaa aggacatact 540
302 tgctatatatt ctgacattga atttacagat aacgcacata tattgacagc aagtgggat 600
303 atgacatgtg ccttgtggga tataccgaaa gcaaagaggg tgagagaata ttctgacat 660
304 ttaggtgatg ttttggcatt agctattcct gaagagccaa acttagaaaa ttcttcgaac 720
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306 gctgtacaaa gcttttacgt taacgatagt gatattaatg cacttcgttt tttcaaagac 840
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329          20          25          30
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332          35          40          45
334 His Ala Gln Ile Asn Lys Ala Lys His Lys Ile Gln Asp Ala Ser Leu
335          50          55          60

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002
TIME: 10:54:30

Input Set : A:\pto_ms.txt
Output Set: N:\CRF4\09162002\J054399.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:32; N Pos. 12

Seq#:33; N Pos. 13

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,399

DATE: 09/16/2002

TIME: 10:54:30

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Output Set: N:\CRF4\09162002\J054399.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1816 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1843 M:283 W: Missing Blank Line separator, <400> field identifier

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/054,399

DATE: 09/10/2002

TIME: 08:57:09

Input Set : A:\DYOU13.1A2CP1 Seq listing.txt

Output Set: N:\CRF3\09102002\J054399.raw

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L:1799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
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L:1841 M:282 W: Numeric Field Identifier Missing, <211> is required.
L:1841 M:282 W: Numeric Field Identifier Missing, <212> is required.
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L:1841 M:200 E: Mandatory Header Field missing, <400> is required.
L:39 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (37) Counted (36)

Does Not Comply
Corrected Diskette Needed



OIIPE

RAW SEQUENCE LISTING

DATE: 09/10/2002

PATENT APPLICATION: US/10/054,399

TIME: 08:57:08

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3 Nern, Peter MA
5 <120> TITLE OF INVENTION: NUCLEOTIDE SEQUENCES AND PROTEIN SEQUENCES
7 <130> FILE REFERENCE: DYU13.1A2CP1
9 <140> CURRENT APPLICATION NUMBER: 10/054399
C--> 10 <141> CURRENT FILING DATE: 2002-08-30
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16 <151> PRIOR FILING DATE: 1997-10-15
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19 <151> PRIOR FILING DATE: 2000-04-07
21 <150> PRIOR APPLICATION NUMBER: US 09/732,180
22 <151> PRIOR FILING DATE: 2000-12-07
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27 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03033
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37 <151> PRIOR FILING DATE: 1997-10-08
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41 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

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1844 Lys Ser Val

*need to insert line breaks
between numeric identifiers.*